Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-6 (cancelled)

- 7. (currently amended): A yeast culture inoculum for use in a capsaicin fermentation medium for the preparation of a topical pain treatment initially comprising:
 - a Capsicum sp. cultivar in water;
 - a yeast; and
- a nutrient mixture comprising at least one nutrient selected from the group consisting of nitrogen, phosphorus, potassium, and a combination thereof.
- 8. (original): The inoculum of claim 7 wherein said *Capsicum sp.* cultivar comprises 1 part *Capsicum sp.* cultivar to an amount of between approximately 1 and approximately 120 parts water.
- 9. (original): The inoculum of clam 8 wherein said *Capsicum sp.* cultivar comprises 1 part *Capsicum sp.* cultivar to an amount of between approximately 10 and approximately 40 parts water.
- 10. (original): The inoculum of clam 9 wherein said *Capsicum sp.* cultivar comprises 1 part *Capsicum sp.* cultivar to an amount of between approximately 15 and approximately 30 parts water.
- 11. (original): The inoculum of claim 7 wherein said yeast comprises an amount of between approximately 0.1% and approximately 50% by volume.
- 12. (original): The inoculum of claim 11 wherein said yeast comprises an amount of between approximately 0.1% and approximately 50% by volume.

- 13. (original): The inoculum of claim 12 wherein said yeast comprises an amount of between approximately 1% and approximately 20% by volume.
- 14. (original): The inoculum of claim 7 wherein said nutrient mixture comprises an amount of between approximately 5% and approximately to 10% by volume.
- 15. (original): The inoculum of claim 14 wherein said nutrient mixture comprises an amount of between approximately 1% and approximately 2% by volume.
- 16. (original): The inoculum of claim 7 wherein said nutrient mixture comprises nitrogen, phosphorus and potassium.
- 17. (original): The inoculum of claim 16 wherein said nutrient mixture comprises approximately 20-20-20 nitrogen-phosphorus-potassium.
 - 18. (original): The inoculum of claim 7 wherein said Capsicum sp. comprises Capsicum chinense.
- 19. (currently amended): A capsaicin fermentation medium for the preparation of a topical pain treatment comprising:
 - a Capsicum sp. cultivar in water;
 - a carbohydrate;
 - a yeast culture inoculum; and
- a nutrient mixture comprising at least one nutrient selected from the group consisting of nitrogen, phosphorus and/or potassium and a combination thereof.
- 20. (original): The fermentation medium of claim 19 further comprising a second nutrient mixture comprising at least one member selected from the group consisting of calcium, magnesium, iron, zinc and a combination thereof.

- 21. (original): The fermentation medium of claim 20 wherein said second nutrient mixture comprises an amount of between approximately 0.001% and approximately 0.01% by weight.
- 22. (currently amended): The fermentation medium of claim 19 further comprising a micronutrient mixture comprising at least one member-selected from the group consisting of manganese, cobalt, copper, and a combination thereof.
- 23. (original): The fermentation medium of claim 22 wherein said micronutrient mixture comprises an amount of between approximately 0.0001% and approximately 0.01% by weight.
- 24. (original): The fermentation medium of claim 19 wherein said *Capsicum sp.* cultivar comprises 1 part *Capsicum sp.* cultivar to an amount of between approximately 1 and approximately 120 parts water.
- 25. (original): The fermentation medium of claim 24 wherein said *Capsicum sp.* cultivar comprises 1 part *Capsicum sp.* cultivar to an amount of between approximately 2 and approximately 50 parts water.
- 26. (original): The fermentation medium of claim 25 wherein said *Capsicum sp.* cultivar comprises 1 part *Capsicum sp.* cultivar to an amount of between approximately 5 and approximately 10 parts water.
- 27. (original): The fermentation medium of claim 19 wherein said carbohydrate comprise an amount of between approximately 1% and approximately 40% by weight.
- 28. (original): The fermentation medium of claim 27 wherein said carbohydrate comprise an amount of between approximately 5% and approximately 20% by weight.

- 29. (original): The fermentation medium of claim 28 wherein said carbohydrate comprise an amount of between approximately 10% and approximately 15% by weight.
- 30. (original): The fermentation medium of claim 19 wherein said yeast culture inoculum comprises an amount of between approximately 0.11% and approximately 50% by volume.
- 31. (original): The fermentation medium of claim 30 wherein said yeast culture inoculum comprises an amount of between approximately 1% and approximately 20% by volume.
- 32. (original): The fermentation medium of claim 31 wherein said yeast culture inoculum comprises an amount of between approximately 5% and approximately 10% by volume.
- 33. (original): The fermentation medium of claim 19 wherein said nutrient mixture comprises an amount of between approximately 0.1% and approximately 10% by volume.
- 34. (original): The fermentation medium of claim 33 wherein said nutrient mixture comprises an amount of between approximately 1% and approximately 5% by volume.
- 35. (original): The fermentation medium of claim 19 wherein said nutrient mixture comprises nitrogen, phosphorus and potassium.
- 36. (original): The fermentation medium of claim 35 comprises approximately 20-20-20 nitrogen-phosphorus-potassium.
- 37. (original): The fermentation medium of claim 19 wherein said *Capsicum sp.* comprises *Capsicum chinense*.

Claims 38-82 (Cancelled)

- 83. (original): The method of claim 37 wherein the step of blending the extract into the oil comprises blending one part of the fermentation extract into an amount of between approximately 5 parts and approximately 10,000 parts of the oil.
 - 84. (new): The inoculum of claim 7 wherein said nutrient mixture comprises nitrogen.
 - 85. (new): The inoculum of claim 7 wherein said nutrient mixture comprises phosphorus.
 - 86. (new): The inoculum of claim 7 wherein said nutrient mixture comprises potassium.
 - 87. (new): The medium of claim 19 wherein said nutrient mixture comprises nitrogen.
 - 88. (new): The medium of claim 19 wherein said nutrient mixture comprises phosphorus.
 - 89. (new): The medium of claim 19 wherein said nutrient mixture comprises potassium.
 - 90. (new): The medium of claim 19 further comprising manganese.
 - 91. (new): The medium of claim 19 further comprising cobalt.
 - 92. (new): The medium of claim 19 further comprising copper.